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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/604,446	07/22/2003	Norman L. Arrison	45239.2	1445
22828	7590 08/03/2004		EXAM	INER
EDWARD YOO C/O BENNETT JONES			JEFFERY, JOHN A	
1000 ATCO CENTRE 10035 - 105 STREET EDMONTON, ALBERTA, AB T5J3T2 CANADA			ART UNIT	PAPER NUMBER
			3742	
			DATE MAILED: 08/03/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summany	10/604,446	ARRISON, NORMAN L.
Office Action Summary	Examiner	Art Unit
The MAN INC DATE of this communication on	John A. Jeffery	3742
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wh	n the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep. If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statul Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a re oly within the statutory minimum of thirty I will apply and will expire SIX (6) MONT te, cause the application to become AB.	rply be timely filed r (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 2a) ☐ This action is FINAL. 2b) ☐ This action is FINAL. 2b) ☐ This action is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matte	-
Disposition of Claims		
4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdra 5) Claim(s) 1-3,5 and 6 is/are allowed. 6) Claim(s) 4 and 7 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/a	awn from consideration.	
Application Papers		
 9) The specification is objected to by the Examin 10) The drawing(s) filed on 22 July 2003 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination.)⊠ accepted or b)⊡ object e drawing(s) be held in abeyan ction is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* * See the attached detailed Office action for a list	nts have been received. Its have been received in Apority documents have been It (PCT Rule 17.2(a)).	oplication No received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s	ummary (PTO-413))/Mail Date
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	5) Notice of In 6) Other:	formal Patent Application (PTO-152)

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DETAILED ACTION

Disclosure Objections

The disclosure is objected to because of the following informalities:

Paras. 0020 and 0021: The term "OLE_LINK1" must be deleted.

Appropriate correction is required.

Claim Rejections - 35 U.S.C. § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 7 is rejected under 35 U.S.C. 112, second paragraph, as failing to set forth the subject matter which applicant(s) regard as their invention.

No antecedent basis exists for "the brittle material." For examination purposes, the examiner presumes claim 7 was intended to depend from claim 5.

Claim Rejections - 35 U.S.C. § 103(a)

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) and (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

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Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Boyd et al (US 3,826,537) in view of Herbrich (US 3,621,198). Boyd et al (US 3,826,537) discloses the use of infrared lamps to induce thermal stress fracture in rock, including both tensile and compressive stresses. Col. 6, lines 28-58. Note infrared lamps 38 and associated reflectors 45 in Fig. 1B and col. 4, lines 8-21.

The claim differs from the previously cited prior art in calling for the energy source to be an arc lamp. Providing arc lamps as high-intensity sources to apply localized heat to cut a workpiece, however, is well known in the art. For example, Herbrich (US 3,621,198) teaches in col. 3, lines 57-63 using an arc lamp in lieu of other types of infrared heating lamps for cutting a workpiece (col. 1, line 6). As is well known in the art, arc lamps are preferred for heating applications in view of their high levels of radiant heat intensity. In view of Herbrich (US 3,621,198), it would have been obvious to one of ordinary skill in the art to use an arc lamp in lieu of the infrared lamps of Boyd et al (US 3,826,537) to increase the infrared heating intensity onto the workpiece.

Allowable Subject Matter

Claims 1-3, 5, and 6 are allowable over the art of record.

Claim 7 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

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Other Pertinent Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant should (1) separately consider the art, and (2) consider the art together with the previously cited prior art for potential applicability under 35 U.S.C. §§ 102 or 103 when responding to this action.

US 999 discloses an arc lamp for high intensity heating of workpieces. US 636, US 757, US 604, US 497, US 883, US 366, US 455, US 857 disclose heating of earthen formations relevant to the instant invention.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John A. Jeffery whose telephone number is (703) 306-4601. The examiner can normally be reached on Monday - Thursday from 7:00 AM to 4:30 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans, can be reached on (703) 305-5766. All faxes should be sent to the centralized fax number at (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1148.

JOHN A. JEFFERY PRIMARY EXAMINER

8/3/04